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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/429,935 10/29/99 SHICHIJYO A PM-264103

EXAMINER

MMC2/0308

PILLSBURY MADISON & SUTRO LLP

GONZALEZ, J

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ART UNIT PAPER NUMBER

2834

DATE MAILED:

03/08/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

		Application No		Applicant(s)	
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		09/429,935		SHICHIJYO, AKIYA	
	Office Action Summary	Examiner		Art Unit	
		Julio C. Gonzal	ez	2834	
	The MAILING DATE of this communication appe	ears on the cove	r sheet	with the correspondence address	
Derind fo	r Renly				
THE N - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. Assions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ad patent term adjustment. See 37 CFR 1.704(b).	136 (a). In no event, ho ly within the statutory n will apply and will expi e, cause the application g date of this commun	owever, m ninimum re SIX (6)	nay a reply be timely filed  of thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication.  mage ARANDONED (35 U.S.C. § 133).	
1)	Responsive to communication(s) filed on	<u> </u>			
2a)□	2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.				
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) 1-15 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)🖂	6)⊠ Claim(s) <u>1-15</u> is/are rejected.				
7)	7) Claim(s) is/are objected to.				
	8) Claims are subject to restriction and/or election requirement.				
Applica	tion Papers				
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on 29 October 1999 is/are objected to by the Examiner.					
11) The proposed drawing correction filed on is: a) approved b) disapproved.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119  13) ★ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
1	a) ☑ All b) ☐ Some * c) ☐ None of:  1.☑ Certified copies of the priority documents have been received.				
	—				
	O wise of the cortified copies of the priority documents have been received in this National Stage				
	* See the attached detailed Office action for a list of the certified copies not received.				
14)[	14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).				
Attachn			· · · ·	Interview Summary (PTO-413) Paper No(s)	
146	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94t Information Disclosure Statement(s) (PTO-1449) Paper No	8)	19) 🔲	Notice of Informal Patent Application (PTO-152) Other:	

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#### **DETAILED ACTION**

## **Drawings**

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 5, 43, 79 and P. Correction is required.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: frame 4. Correction is required.
- / 3. The drawings are objected to because in figure 1, the claw pole 33 and core 22 point to the same part and core 22 seems to be in two different places. Correction is required.
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the wall and frame must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
  - 6. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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In claim 1, applicant refers to the wall having "lead-wire-holes". Are these "holes" just in the leads or are they holes made in the wall of the stator? Is the stator being cut through to make these holes?

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda et al in view of Ooiwa et al.

Umeda et al discloses an ac generator 1 for a vehicle comprising a rotor 3 having a shaft 6; a stator 2 having multi-phase stator winding 2 which has output for respective phase voltages; ac generator 1 further comprising a cooling fan 11 fixed to one end of rotor 3 and multi-phase stator winding 2 comprising a plurality of three-phase winding which are different in phase (see figure 18). Also, Umeda et al discloses a rectifier unit 5 which comprises a plurality of three-phase rectifiers (see figure 18) and stator winding 2 comprises a first star-connected three-phase winding and a second star-connected three-phase winding.

However, Umeda et al does not disclose output lead wires being used for the stator and fin parts in the ac generator.

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On the other hand, Ooiwa et al discloses, for the purpose of improving the cooling performance in an ac generator, a rectifier unit 5 having input terminal connected to output lead wires which further comprises a terminal member 513 in lead-wire-holes for holding the output lead wires. Also, the wall having at least two output lead wires to be respectively connected to input terminal (see figure 5 and 6) and the rectifier unit 5 comprises a common positive cooling fin 501 and a common negative fin 503 (column 2, lines 23-27). Moreover the wall has three lead wires holes each of which has a bundle of said output lead wires respectively extending from the pair of three-phase windings (see figure 5 and 6).

It would have been obvious to one having ordinary skill in the art to design an ac generator with a shaft, a rotor, stator, a plurality of three-phase stator winding, a cooling fan and a plurality of rectifiers as disclosed by Umeda et al and to include a positive and negative fin and terminal members with lead connections each of which has a bundle for the purpose to improve the cooling performance of an ac generator as disclosed by Ooiwa et al.

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

NESTOR RAMIREZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Jcg

March 1, 2001